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(54) CEMENTATION-PROOFING COATING MATERIAL

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a coating material which can make a substrate proof against cementation even when applied thereto singly.

SOLUTION: The coating material is prepared by adding 5-40 mass % alkali salts of meta- and ortho-silicic acids to a water glass. In cementing case hardening steel, this material is applied to the part to be made proof against cementation, whereupon the material is solidified in ten and odd to thirty and odd minutes as the result of the evaporation of the water. When this is placed in a cementing oven and heated to 920-960°C, the coating film vitrifies into a gas-impervious film. The heating time is several to several tens hr.

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